

TABLE OF CONTENTS

	<u>PAGE</u>
AVIATION	
MICHIGAN AVIATION ACTIVITY	35
AIRCRAFT OPERATIONS	36
ITINERANT/LOCAL OPERATIONS	37
PUBLIC VS. PRIVATE OWNERSHIP	38
PUBLIC AIRPORT LOCATIONS	39
PRIVATE AIRPORT LOCATIONS	40
ACTIVITY BY AIRPORT CATEGORY AND GROUP	41
PASSENGER ACTIVITY	43
TOTAL SCHEDULED PASSENGERS	44

MICHIGAN AVIATION ACTIVITY

Michigan airport take-off and landing numbers continue to increase at airports with and without control towers. The number of passengers continues to increase dramatically year-to-year. The volume of cargo and mail are also increasing. Air-carried mail levels are

controlled directly by the U.S. Postal Service and are not influenced by state agencies.

Michigan's registered aircraft program is administered by MDOT's Bureau of Aeronautics.

INDICATOR	1990	1995	2000	% Change 1990 - 2000
Control Tower Airport Operations*	2,077,400	2,019,389	2,191,931	5.5
Non-Towered Airport Operations*	1,934,190	2,235,520	2,517,131	30.1
Total Operations*	4,011,590	4,254,909	4,709,062	17.4
Total Scheduled Air Carrier Passengers	25,112,384	31,596,208	40,528,139	61.4
Air Cargo, Express & Package Freight (tons)	272,443	353,189	361,023	32.5
Air Carried Mail (tons)	78,955	130,322	99,718	26.3
Registered General Aviation Aircraft	6,773	7,049	7,083	4.5

* An operation is either a take-off or a landing at an airport.

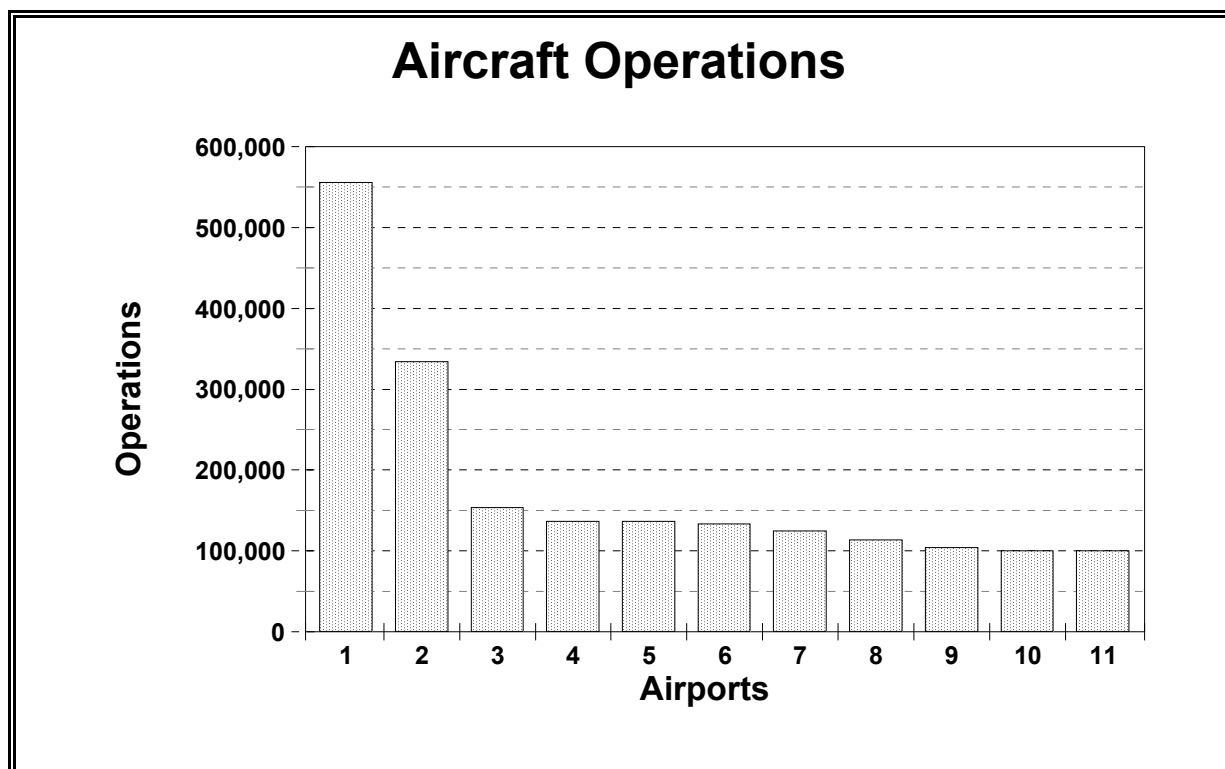
Source: MDOT, Bureau of Transportation Planning, Travel Demand and Intermodal Services Section

AIRCRAFT OPERATIONS

During 2000 there were 4,359,931 aircraft take-off and landing operations at Michigan's 235 public use airports, a 6.6 percent decrease over 1998 levels.

The busiest Michigan airports in 2000 were Detroit Metropolitan Wayne County Airport with 555,375 operations and Oakland-Pontiac Airport with 334,280 operations. An additional nine airports had between 100,000 and 160,000 operations. They were

Detroit City (153,832), Detroit-Willow Run (136,552), Grand Rapids Gerald R. Ford International (136,465), Flint Bishop (133,352), Traverse City Cherry Capital (124,846), Lansing Capital City (113,420), Ann Arbor Municipal (104,342), Kalamazoo-Battle Creek International (100,062) and Canton-Plymouth-Mettetal (100,000). In total, these eleven airports had 42.6 percent of the take-off and landing operations in Michigan.



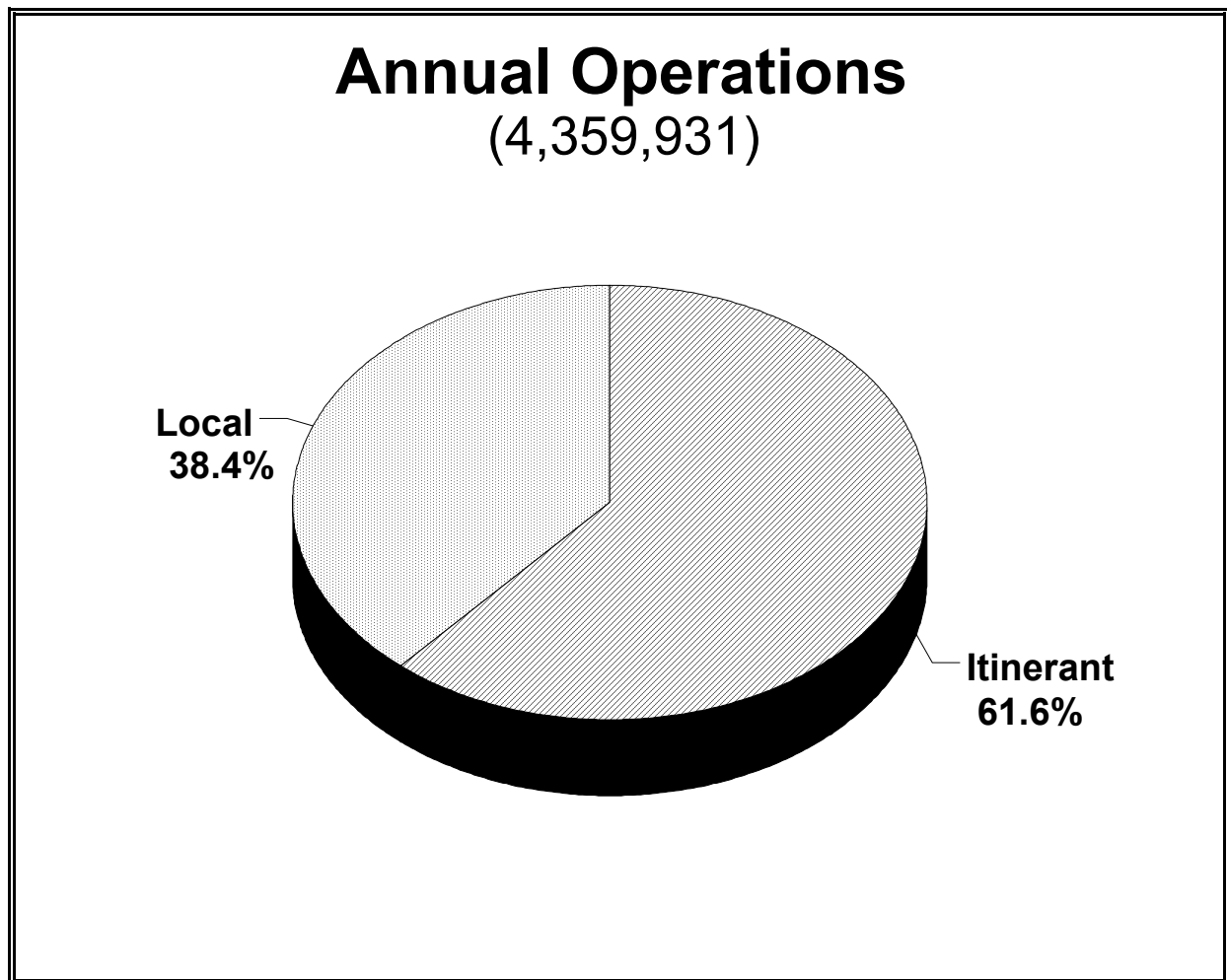
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|--|---|
| Detroit Metropolitan Wayne County | 7 Traverse City Cherry Capital |
| 1 Oakland-Pontiac | 8 Lansing Capital City |
| 2 Detroit City | 9 Ann Arbor Municipal |
| 3 Detroit-Willow Run | 10 Kalamazoo-Battle Creek International |
| 4 Grand Rapids Kent County International | 11 Canton-Plymouth-Mettetal |
| 5 Flint Bishop | |
| 6 | |

Source: MDOT, Bureau of Transportation Planning, Travel Demand and Intermodal Services Section

ITINERANT/LOCAL OPERATIONS

There were 4,359,931 take-off and landing operations in 2000. There are two types of operations, itinerant and local. In 2000, there were 2,679,676 itinerant and 1,680,255 local operations. An itinerant operation is defined two ways; first, an aircraft take-off where the aircraft leaves the airport

vicinity and lands at another airport; or second, an aircraft landing where the aircraft has arrived from outside the airport vicinity. Local operations are take-offs or landings where the aircraft stays in the airport vicinity.

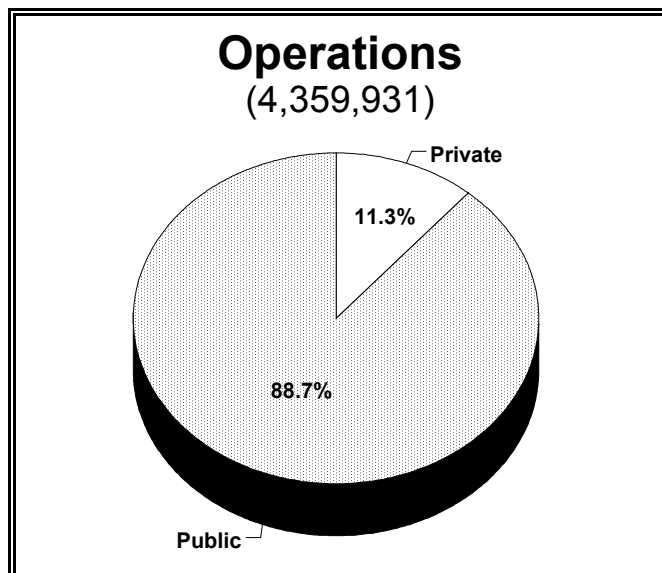
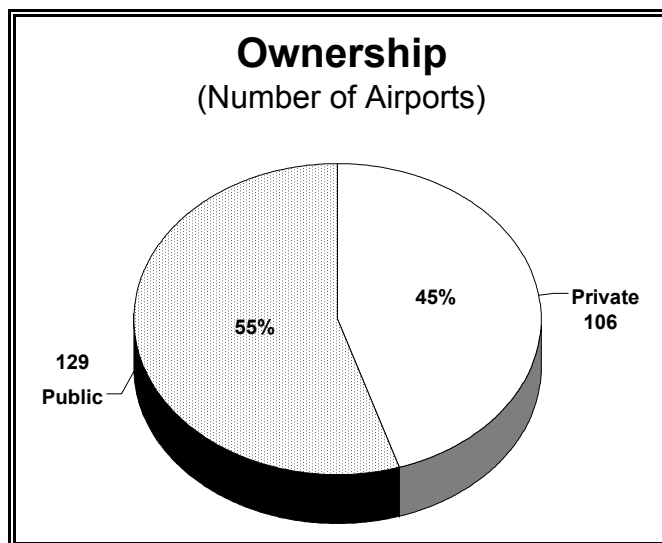


Source: MDOT, Bureau of Transportation Planning, Travel Demand and Intermodal Services Section

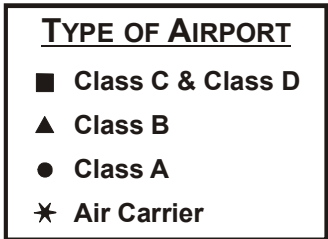
PUBLIC VS. PRIVATE OWNERSHIP

The number of public use airports in Michigan are divided between public ownership (129) and private ownership (106). The publicly owned airports had 3,867,961 total operations (88.7 percent). Privately-owned airports had

491,970 total operations (11.3 percent). At publicly-owned airports, 63.1 percent of operations were itinerant while at privately-owned airports, 48.6 percent were itinerant operations. (See previous page for definition of itinerant.)

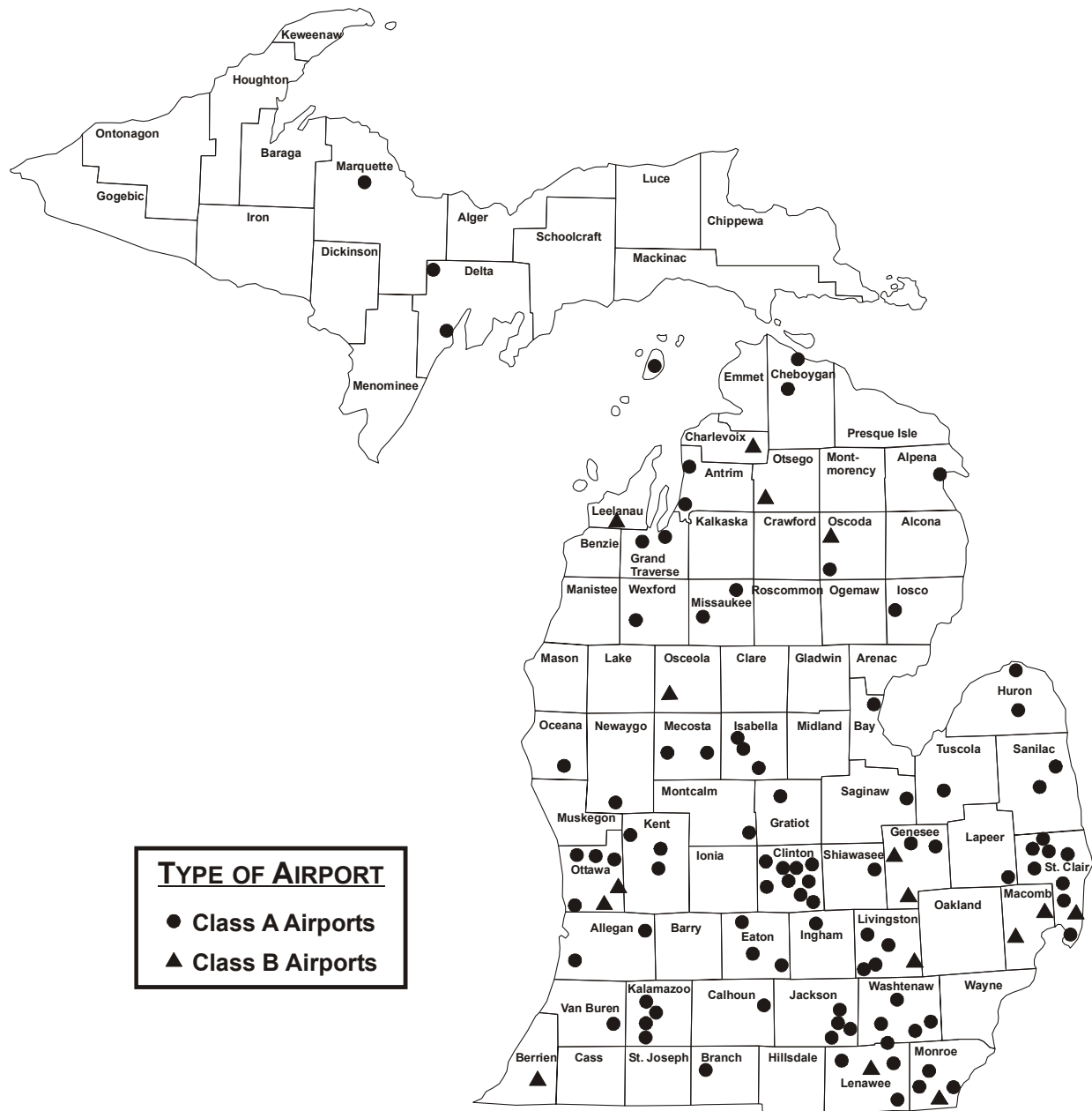


Source: MDOT, Bureau of Transportation Planning, Travel Demand and Intermodal Services Section



PRIVATE AIRPORT LOCATIONS

There are 114 public use, privately-owned airports.



Source: MDOT, Bureau of Transportation Planning, Travel Demand and Intermodal Services Section

ACTIVITY BY AIRPORT CATEGORY AND GROUP

All Michigan airports are classified based on the primary runway approach category (D, C, B or A) and the design group (III, II or I). The primary runway approach category relates to the speed of approaching aircraft and helps determine runway length, width, strength and approach type. The design group relates to the wingspan of aircraft using the airport and helps determine the physical layout of the airport.

D-III and C-II/III airports are the highest developed facilities in the state with paved runways capable of handling jet aircraft. These facilities have primary runways of 5,000 feet or longer. Virtually all types of general aviation aircraft can utilize these airports. In 2000, there were 41 facilities totaling over 2.7 million operations of which 69 percent were itinerant.¹ These airports averaged 66,651 total operations in 2000.

B-I/II airports are medium and large-size facilities that have paved runways capable of handling approximately 95 percent of general aviation aircraft types. These facilities have a primary runway length between 3,500 and 4,300 feet. In 2000, there were 87 airports totaling 1.4 million operations, of which 49 percent were itinerant. These airports averaged 15,927 total operations in 2000.

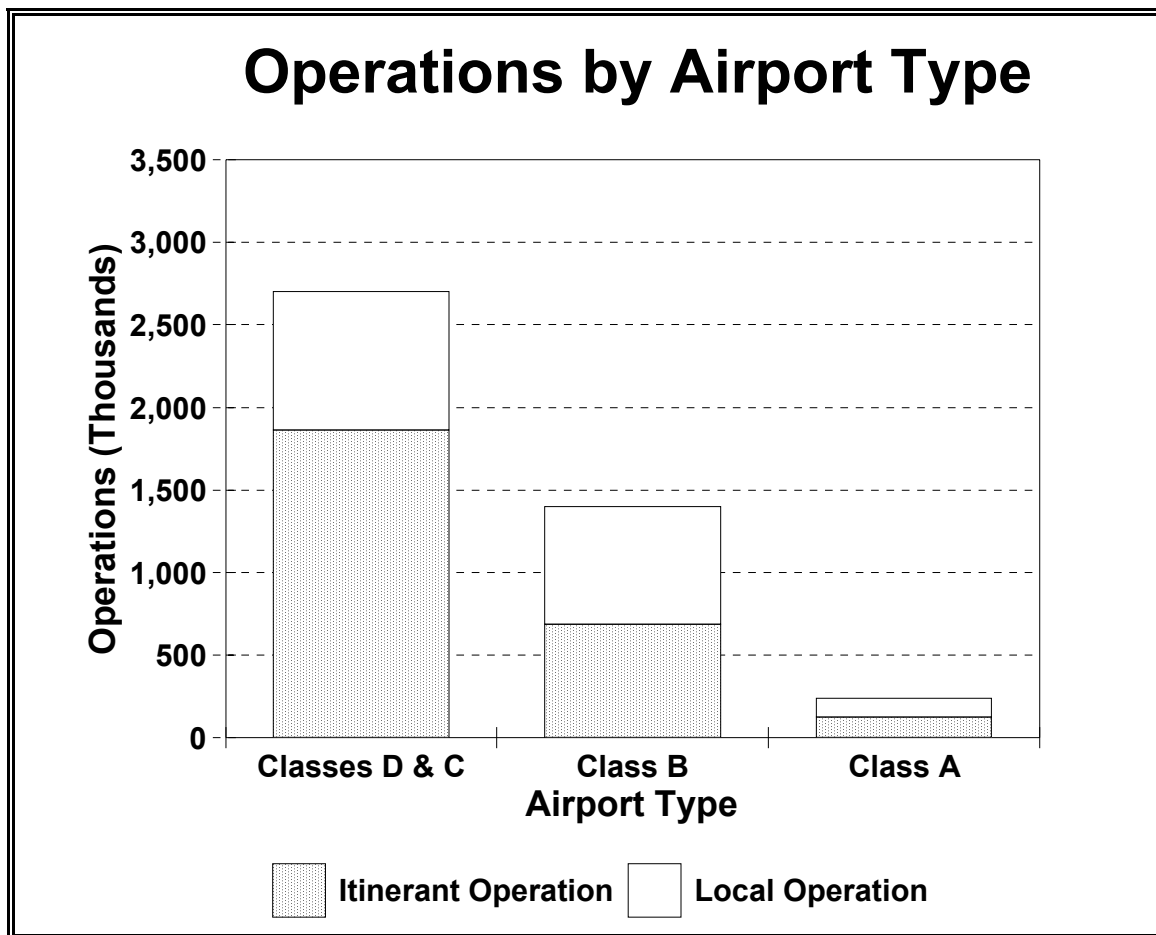
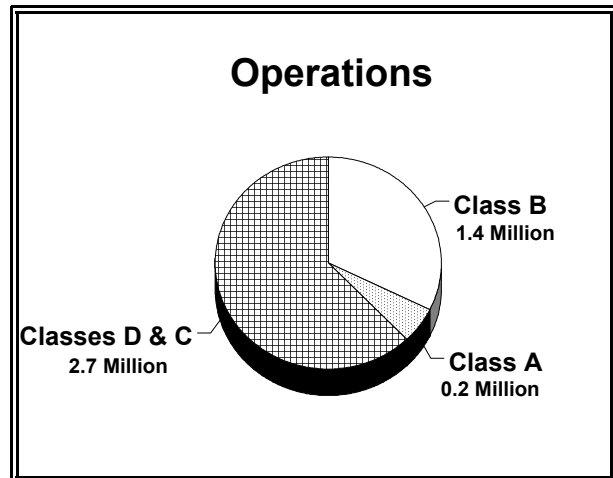
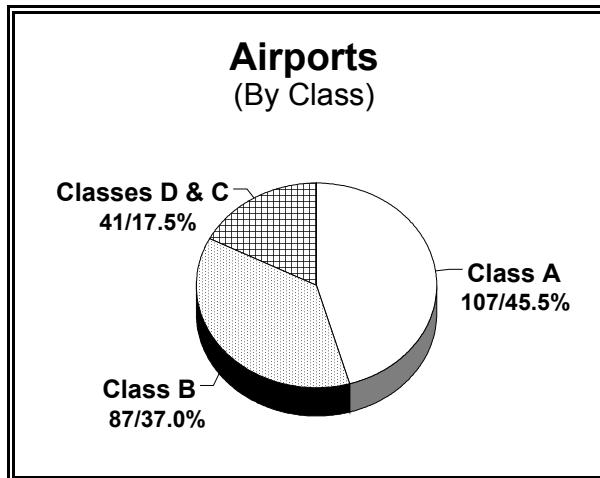
A-I airports are small facilities that have turf runways capable of handling around 75 percent of the general aviation aircraft types. These facilities have primary runway length less than 3,500 feet. As of 2000, there were 107 airports totaling 240,000 total operations, of which 52 percent were itinerant. These airports averaged 2,258 operations in 2000.

MDOT utilizes three sources of information for the operations estimates contained in this report.

1. There are 15 airports in Michigan with Federal Aviation Administration (FAA) towers. These facilities report aircraft operations to MDOT each month.
2. Each year MDOT records aircraft operations at 60 to 80 non-towered airports in Michigan. From these, MDOT estimates annual operations at approximately 150 airports in the state.
3. Estimates for the remaining 110 to 120 public use airports were derived from the Michigan Air Traffic Counter Program. Base-year data from this report was adjusted to reflect changes from 1987 to 2000.

¹ An itinerant operation is defined two ways; first is an aircraft take-off where the aircraft leaves the airport vicinity and lands at another airport; or second, an aircraft landing where the aircraft has arrived from outside the airport vicinity.

ACTIVITY BY AIRPORT CATEGORY AND GROUP (CON'T)



Source: MDOT, Bureau of Transportation Planning, Travel Demand and Intermodal Services Section

PASSENGER ACTIVITY

In 2000, 26 carriers provided scheduled passenger service at 19 Michigan airports. In 2000, Michigan airports experienced higher passenger levels than in 1978, the last year of government regulation of routes and

fares. Since 1983, Detroit Metropolitan Wayne County Airport has accounted for approximately 80 percent of the statewide total passengers.

Current vs. Regulated Total Passenger Levels

Community	Passenger Levels		Difference	
	1978	2000	Actual	Percent
Alpena	25,012	10,554	(14,458)	(57.8)
Benton Harbor	69,138	2,821	(66,317)	(95.9)
Detroit City	71,009	124,291	53,282	75.0
Detroit Metropolitan	9,588,196	17,572,823	7,984,627	83.3
Escanaba	34,887	19,300	(15,587)	(44.7)
Flint	280,144	299,692	19,548	7.0
Grand Rapids	841,316	968,295	126,979	15.1
Houghton/Hancock	51,824	32,482	(19,342)	(37.3)
Iron Mountain	44,191	8,729	(35,462)	(80.2)
Ironwood	20,511	2,075	(18,436)	(89.9)
Kalamazoo/Battle Creek	274,488	258,118	(16,370)	(6.0)
Lansing	447,259	331,363	(115,896)	(25.9)
Manistee	5,732	1,196	(4,536)	(79.1)
Marquette	85,496	45,076	(40,420)	(47.3)
Muskegon	173,232	47,141	(126,091)	(72.8)
Pellston	60,665	32,131	(28,534)	(47.0)
Saginaw/Midland/Bay City	452,161	281,305	(170,856)	(37.8)
Sault Ste. Marie County	25,389	15,504	(9,885)	(38.9)
Traverse City	152,719	202,832	50,113	32.8
Statewide	12,805,271	20,255,728	7,450,457	58.2
Statewide w/o Metro	3,217,075	2,682,905	(534,170)	(16.6)
Upper Peninsula	284,797	123,166	(161,631)	(56.8)
Northern Lower Peninsula	244,128	246,713	2,585	1.1
Southern Lower Peninsula	2,617,141	2,188,735	(428,406)	(16.4)
Metro Detroit Area	9,659,205	17,697,114	8,037,909	83.2

Source: MDOT, Bureau of Transportation Planning, Travel Demand and Intermodal Services Section

TOTAL SCHEDULED PASSENGERS

Post Regulatory History						
Community	1978	1980	1985	1990	1995	2000
Alpena	25,012	24,198	9,993	14,024	13,135	10,554
Battle Creek	59,497	47,056	33,367	n/s	n/s	n/s
Benton Harbor	69,138	56,833	22,791	372	7,183	2,821
Cadillac	n/s	n/s	n/s	n/s	n/s	n/s
Detroit City	71,009	66,499	45,658	781,705	n/s	124,291
Detroit Metropolitan	9,588,196	9,710,114	15,103,539	21,338,594	27,459,812	17,572,823
Drummond Island	n/s	n/s	n/s	3,024	n/s	n/s
East Tawas	n/s	n/s	n/s	n/s	n/s	n/s
Escanaba	34,887	40,269	21,442	26,094	35,913	19,300
Flint	280,144	171,477	267,479	314,568	216,148	299,692
Gaylord	n/s	n/s	n/s	494	n/s	n/s
Grand Rapids	841,316	849,981	1,195,241	1,386,501	1,601,566	968,295
Houghton/Hancock	51,824	49,330	41,615	45,568	40,762	32,482
Iron Mountain/Kingsford	44,191	38,247	17,396	21,216	21,092	8,729
Ironwood	20,511	23,990	5,889	10,155	6,413	2,075
Jackson	19,906	14,001	2,050	26	n/s	n/s
Kalamazoo/Battle Creek	274,488	240,083	340,893	492,950	510,024	258,118
Lansing	447,259	368,453	343,999	528,719	622,367	331,363
Mackinac Island	n/s	n/s	1,302	1,617	n/s	n/s
Manistee	5,732	4,524	169	4,321	3,171	1,196
Marquette	85,496	67,951	75,210	78,116	79,412	45,076
Menominee/Marinette	22,499	20,098	2,118	3,224	1,525	n/s
Muskegon	173,232	109,212	86,782	104,156	78,846	47,141
Pellston	60,665	49,939	30,421	46,664	50,334	32,131
Saginaw/Midland/Bay City	452,161	378,582	380,720	467,993	513,479	281,305
Sault Ste. Marie County	25,389	21,657	10,077	17,354	18,826	15,504
Traverse City	152,719	155,712	149,998	229,361	317,725	202,832
Statewide	12,805,271	12,508,206	18,188,149	25,916,816	31,597,733	20,255,728
Statewide w/o Metro	3,217,075	2,798,092	3,084,610	4,578,222	4,137,921	2,682,905
Upper Peninsula	284,797	261,542	175,049	206,368	203,943	123,166
Northern Lower Peninsula	244,128	234,373	190,581	294,864	384,365	246,713
Southern Lower Peninsula	2,617,141	2,235,678	2,673,322	3,295,285	3,549,613	2,188,735
Metro Detroit Area	9,659,205	9,776,613	15,149,197	22,120,299	27,459,812	17,697,114

Airports with no service are designated with n/s.

Source: MDOT, Bureau of Transportation Planning, Travel Demand and Intermodal Services Section